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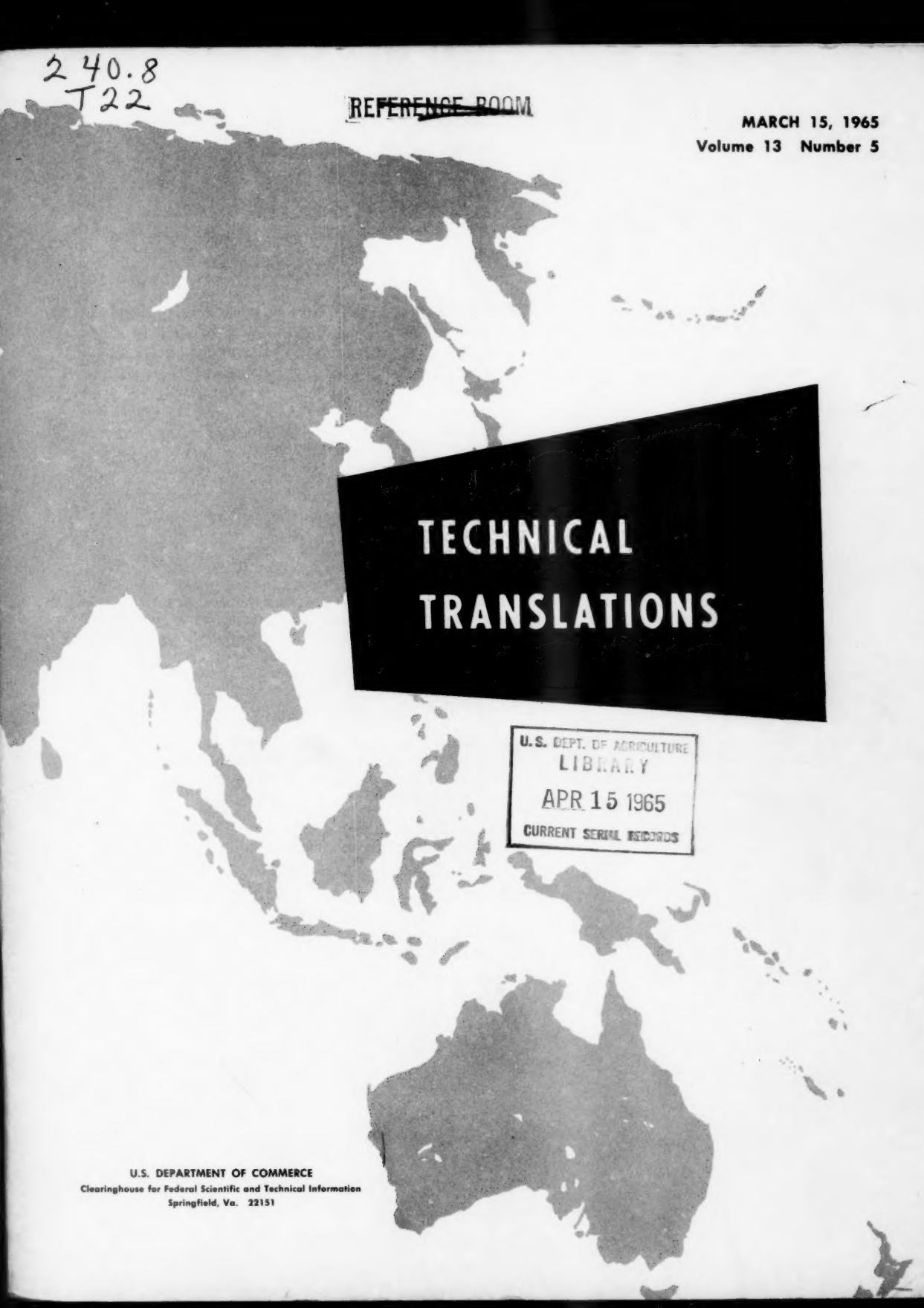
REFERENCE ROOM

MARCH 15, 1965
Volume 13 Number 5



TECHNICAL TRANSLATIONS

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TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
John T. Connor, Secretary

Clearinghouse for Federal
Scientific and Technical Information
Bernard M. Fry, *Director*

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Contents may be reprinted freely. Mention of source will be appreciated.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget, November 22, 1961

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The Special Libraries Association is responsible for collecting translations from non-Government sources, both domestic and foreign; the Clearinghouse for collecting translations from both U.S. and foreign government sources since 1940.

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The Clearinghouse provides reference service for the location and identification of translated materials, both completed translations and translations in process.

special ANNOUNCEMENTS

TRANSLATING PROGRAM HAS NEW NAME

The National Science Foundation has announced that the name of the "Public Law 480 Translating Program" has been changed to "Special Foreign Currency Science Information (SFCSI) Program".

The National Science Foundation administers this program whereby translations of foreign technical and scientific literature are prepared for eight Government agencies with currencies accrued in certain countries from the sale of surplus agricultural commodities.

The Clearinghouse is responsible for the public announcement and dissemination of this material, now being prepared in Israel, Poland and Yugoslavia.

Entries in Technical Translations designating translations produced under this program will be provided with the SFCSI code. The same is true of the items listed in the Number Index.

Example:

YUGOSLAV SCIENTIFIC RESEARCH DIRECTORY
1964. 1964, 590p. SFCSI HEW
Order from OTS $6.00 TT-64-11452

A SINGLE INDEX FOR NEW FEDERAL R AND D

A Clearinghouse publication beginning March 1965 will provide scientists, engineers and research managers with a single index to new unclassified Government-sponsored technical information.

Entitled Government-Wide Index to Federal Research and Development Reports, it will be made up from machinable index records of four major Government announcement journals prepared by the Atomic Energy Commission, National Aeronautics and Space Administration, Department of Defense, and the Clearinghouse.

Journals To Be Indexed

The agency announcement journals to be covered by the Government-Wide Index are:

Nuclear Science Abstracts (AEC)

Scientific and Technical Aerospace Reports (NASA)

Technical Abstract Bulletin (Defense Documentation Center)

U.S. Government Research and Development Reports (Clearinghouse)

Technical Translations is not included in the program at this time. However, certain foreign translations cited in Technical Translations that are also announced in one of the four journals listed above, will, of course, be indexed.

Appearing the 15th of each month, the Government-Wide Index will list the reports announced during the previous month. The first issue will bring the series up to date by covering January and February 1965.

Computer-Merged

For this project, the Clearinghouse is initially using the computer facilities of the Aerospace Research Applications Center at the University of Indiana. The journal records, in the form of punched paper tapes, magnetic tapes, and cards, are fed into the computer which merges them into a single index under the four standard access points of subject, author, source and report number.

How to Order

The Government-Wide Index to Federal Research and Development Reports will be printed and sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402. Price is $10 for a one-year subscription (12 issues); add $2.50 for foreign mailing; single issue, $1.25. Make remittance payable to Superintendent of Documents.

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HOW TO ORDER TRANSLATIONS

The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicates that the particular journal is also translated cover-to-cover.

Listed below are agencies from which translations may be purchased. Each entry in the Technical Translations indicates by symbol the agency from which the translation should be ordered, the cost of the translation (if known), and the number by which the translation may be ordered, if such a number exists. Make check or money order payable to the agency indicated.

SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P. O. Box 46354
Hollywood,
California 90046

AGI
AGI Translations Office
American Geological Institute
1444 N Street, N. W.
Washington, D. C. 20005

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
Suite 506, 1145-19th Street, N. W.
Washington, D. C. 20036

AIAA
American Institute of Aeronautics and Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. and the Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Ave.,
New York, New York 10003

ARS
American Rocket Society, Inc.
20th and Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron and Steel Institute
4, Grosvenor Gardens
London, S.W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises Inc.
227 West 17th Street
New York, New York 10011

CBT
Centre Belge de Traductions
Bibliotheque Royale
4 Boulevard de l'Empereur
Brussels, Belgium

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion
Patronato Juan de la Cierva,
Serrano 150, Apartado 743,
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIR
Council for Scientific and Industrial Research
The Head
Information Division
P. O. Box 395
Pretoria, Republic of South Africa

CSIRO
Commonwealth Scientific and Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D. C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

ETH
Eidgenossische Technische Hochschule
Zurich, Switzerland

ETHB
Eidgenossische Technische Hochschulbibliotek
Leonhardstrasse 33
Zurich, Switzerland

EURO-T. S.
Euro-Translation Service
20 Rue Europe
Grivegnee (Liege), Belgium

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D. C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire,
England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P. O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P. O. Box 569
London, S. E. 1, England

HTCBN
Hungarian Trading Company for Books and Newspapers
"Kultura"
Budapest 62, P. O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Conn. 06097

INT
International Patent Service N. V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
Kiryat Moshe
P. O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D. C. 20540

LNEC
Laboratorio Nacional de Engenharia Civil
Ministerio das Obras Publicas
Avenida do Brasil
Lisbon 5, Portugal

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S. E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MPIK
Max-Planck-Institut fur
Kohlenforschung
Bibliothek der Abteilung
Strahlenchemie Stiftstrasse 34-36
433 Mulheim and der Ruhr,
West Germany

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering
Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space
Administration
1520 H Street, N. W.
Washington, D. C. 20546

NLL
National Lending Library for
Science and Technology
Boston Spa, Yorkshire, England

NRCC
National Research Council
Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

OTS
Clearinghouse for Federal Scientific
& Technical Information (Formerly Office of Technical Services)
Port Royal & Braddock Roads
Springfield, Virginia 22151
(Also available through Department of Commerce Field Offices)

PERA
The Information Manager
Production Engineering Research
Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Maxwell Scientific
International, Inc.
122 East 55th Street
New York, New York 10022

RIS
Research Information Service
Div. of Pergamon International
Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
Japanese Language Translation
Service
15/2027 Chogo
Fujisawa, Japan

SIAM
Business Manager
SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants
Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STC
Swedish Translation Centre
Kunglige Tekniske Hogskolans
Bibliotek
Leonhardstrasse 33
Zurich, Switzerland

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TC
Trans-Chem
1216 Oakdale, S. E.
Knoxville, Tennessee 37914

TDL
Mr. John Wiley
Technical Development
Laboratories
P. O. Box 769
Savannah, Georgia 31400

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street
London, E. C. 4, England

TIB
Technische
Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W. C. 2, England

TTIS
Translation & Technical
Information Services
32 Manaton Road
London, S. E. 15, England

UBO
Royal University Library
Drammensveien 42B
Oslo, Norway

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba
Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

CUMULATIVE INDEXES

The following Cumulative Indexes for Technical Translations are available from Superintendent of Documents, Government Printing Office, Washington, D. C. 20402:

Volume 9	January - June	1963	$1.00
Volume 8	July - December	1962	$1.00
Volume 7	January - June	1962	$1.00
Volume 6	July - December	1961	$1.00
Volume 5	January - June	1961	$1.00
Volume 4	July - December	1960	$1.00
Volume 3	January - June	1960	$1.00
Volume 2	July - December	1959	$3.00
Volume 1	January - June	1959	$1.50

UNITED STATES DEPARTMENT OF COMMERCE
Clearinghouse for Federal Scientific and Technical Information
Formerly Office of Technical Services
Springfield, Va. 22151

TECHNICAL TRANSLATIONS

Volume 13, Number 5 | Pages 319 - 475 | March 15, 1965

AGRICULTURE

COMMUNIST CHINA'S FOOD AND AGRICULTURE: TRANSLATIONS NO. 9. 12 Oct 64 [32p] JPRS: 26866.
Order from OTS HC $2.00, MF $0.50 TT-64-51123

Consists of 7 articles from Aug-Sep 64 issues of Communist Chinese newspapers.

COMMUNIST CHINA'S FOOD AND AGRICULTURE: TRANSLATIONS NO. 10. 20 Oct 64 [23p] JPRS: 26980.
Order from OTS HC $1.00, MF $0.50 TT-64-51236

Consists of 4 articles from Aug-Sep 64 issues of Communist Chinese newspapers.

COMMUNIST CHINA'S FOOD AND AGRICULTURE: TRANSLATIONS NO. 11. 22 Oct 64 [21p] JPRS: 27039.
Order from OTS HC $1.00, MF $0.50 TT-64-51295

Consists of 7 articles from Sep-Oct 64 issues of Communist Chinese journals and newspapers.

COMMUNIST CHINA'S FOOD AND AGRICULTURE: TRANSLATIONS NO. 12. 4 Nov 64 [28p] JPRS: 27212.
Order from OTS or ETC HC $2.00, MF $0.50 TT-64-51467

Consists of 5 articles from Oct 64 issues of Communist Chinese newspapers.

EAST EUROPEAN AGRICULTURE, FORESTRY, AND FOOD INDUSTRIES: TRANSLATIONS NO. 297.
24 Sep 64 [74p] JPRS: 26545.
Order from OTS HC $3.00, MF $0.75 TT-64-41803

Consists of 4 articles from Jul 64 issues of Polish and Yugoslavian journals.

EAST EUROPEAN AGRICULTURE, FORESTRY, AND FOOD INDUSTRIES: TRANSLATIONS NO. 302.
9 Oct 64 [27p] JPRS: 26832.
Order from OTS HC $2.00, MF $0.50 TT-64-51089

Consists of selected articles from Jun-Aug 64 issues of East German, Hungarian and Rumanian journals.

EAST EUROPEAN AGRICULTURE, FORESTRY, AND FOOD INDUSTRIES: TRANSLATIONS NO. 303.
14 Oct 64 [36p] JPRS: 26899.
Order from OTS HC $2.00, MF $0.50 TT-64-51156

Trans. of Bulgarski Tyutyun, 1964 [v. 9] no. 8/9, p. 4-19, 38-41 and die Lebensmittel-Industrie (East Germany) 1964 [v. 11] no. 7, p. 236-239.

EAST EUROPEAN AGRICULTURE, FORESTRY, AND FOOD INDUSTRIES: TRANSLATIONS NO. 304.
15 Oct 64 [46p] JPRS: 26930.
Order from OTS HC $2.00, MF $0.50 TT-64-51186

Consists of 5 articles from Jul-Sep 64 issues of Bulgarian journals.

EAST EUROPEAN AGRICULTURE, FORESTRY, AND FOOD INDUSTRIES: TRANSLATIONS NO. 307.
26 Oct 64 [22p] JPRS: 27076.
Order from OTS HC $1.00, MF $0.50 TT-64-51332

Consists of selected articles from Sep 64 issues of Hungarian journals.

HIGH YIELDS OF SUGAR BEETS AND CORN AT MINIMUM EXPENSE. Soviet Agriculture: Translations No. 37. 6 Oct 64 [35p] JPRS: 26739.
Order from OTS HC $2.00, MF $0.50 TT-64-41996

Trans. of Ekonomicheskaya Gazeta (USSR) 1964, no. 24[149] p. 21-28.

Legibility of this document is in part unsatisfactory. Reproduction has been made from best available copy.

JOURNAL FOR SCIENTIFIC AGRICULTURAL RESEARCH, 1964, VOL. 17, NO. 55
Bozidar Filipovic, tr. 1964 [129p] SFCSI Agr.
Order from OTS HC $4.00 TT-64-11453/1

Trans. of Arhiv za Poljoprivredne Nauke [I Tehniku] (Yugoslavia) 1964, v. 17, no. 55, p. 3-142.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

SOVIET AGRICULTURE: TRANSLATIONS NO. 44.
6 Nov 64 [30p] JPRS: 27272.
Order from OTS HC $2.00, MF $0.50 TT-64-51527

Consists of 5 articles from Jul-Sep 64 issues of various Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY NO. 138. 22 Sep 64 [9p] JPRS: 26493.
Order from OTS HC $1.00, MF $0.50 TT-64-41751

Consists of 3 articles from Jun-Jul 64 issues of Russian newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY NO. 139.
22 Sep 64 [9p] JPRS: 26513.
Order from OTS HC $1.00, MF $0.50 TT-64-41771

Consists of articles from Apr-Jul 64 issues of Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY NO. 144. 12 Oct 64 [51p] JPRS: 26850.
Order from OTS HC $3.00, MF $0.50 TT-64-51107

Consists of 76 partial and complete translations from Apr-Sep 64 issues of Russian and Spanish journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY NO. 148.
30 Oct 64 [15p] JPRS: 27164.
Order from OTS HC $1.00, MF $0.50 TT-64-51420

Consists of 4 articles from Apr-Aug 64 issues of Russian newspapers.

Bac, Stanislaw.
THE INFLUENCE OF PLOWING ON SOIL DISPLACEMENT (Wplyw Pracy Pluga na Przemieszczenie Gleb) Halina Golebiowska, tr. 1964 [20p] SFCSI Agr.
Order from OTS HC $0.50 TT-61-11336

Trans. of reprint from Polish mono. Research on Soil Erosion in Poland, n.p., 1950.

Borozdin, B. and Kashkadamov, B.
WORKING CAPITAL TURNOVER AT UZBEK AND CHIRCHIK FARM-MACHINERY FACTORIES [AND] PROGRESS AT L'VOV BUS BUILDING PLANT.
USSR Industrial Development: Soviet Tractors and Agricultural Machinery no. 140. 6 Oct 64 [17p] JPRS: 26731.
Order from OTS HC $1.00, MF $0.50 TT-64-41988

Trans. of V[ystavka] D[ostizhenii] N[arodnogo] Kh[ozyaistva] SSR. [Informatsionnyi Byulleten'] 1964, no. 7, p. 5-8; from Ekonomicheskaya Gazeta (USSR) 1964, no. 28[153] p. 29-30.

Ezhevskii, A.
SOVIET AGRICULTURAL WORKERS ARE BEING URGED TO MAKE FULL USE OF AVAILABLE MECHANIZED EQUIPMENT AND THEREBY INCREASE PRODUCTIVITY OF LABOR.
Soviet Agriculture: Translations no. 40. 16 Oct 64 [4p] JPRS: 26934.
Order from OTS HC $1.00, MF $0.50 TT-64-51190

Trans. from Trud, Moscow (USSR) 1964, 18 Jul, p. 4.

Ganchev, G. and Georgiev, B.
CENTRIFUGAL FERTILIZER SPREADER MIK-1.
17 Aug 64, 6p JPRS: 25952 (p. 16-21).
Order from OTS HC $2.00, MF $0.50 in TT-64-41223 (p. 16-21)

Trans. of Mekhanizatsiya i Elektrifikatsiya na Selskoto Stopanstvo (Bulgaria) [1964, no. 4] p. 20-22.

Gerasimov, I. P.
SCIENTIFIC FUNDAMENTALS OF SOIL SYSTEMATICS (Nauchnye Osnovy Sistematiki Pochv). 1964 [9p] 12refs SFCSI Agr.
Order from OTS HC $1.00 TT-65-50060

Trans. of Pochvovedenie (USSR) 1952, no. 11, p. 1019-1026.

Gilyarov, M. S.
THE MILLEPEDES (JULOIDEA) AND THEIR ROLE IN SOIL FORMATION (Kivsyaki (Juloidea) i Ikh Rol' v Pochvoobrazovanii). 1964 [10p] 20refs SFCSI Agr.
Order from OTS HC $1.00 TT-65-50059

Trans. of Pochvovedenie (USSR) 1957, no. 6, p. 74-80.

Giosan, N.
SCIENTIFIC RESEARCH IN AGRICULTURE. 15 Oct 64 [11p] JPRS: 26912.
Order from OTS HC $1.00, MF $0.50 TT-64-51169

Trans. of Probleme Agricole (Rumania) 1964, v. 16, no. 8, p. 8-14.

Kolosov, I.
A METHOD FOR DETERMINING THE SORBING SURFACE OF ROOTS (Sposob Opredeleniya Pogloshchayushchei Poverkhnosti Kopnei). 18p.
Order from CSIR R.1.80 CSIR-tr.152

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For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

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Contains abstracts of articles from East European scientific and technical journals.

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Order from OTS HC $1.00, MF $0.50 TT-64-51238

Consists of 6 articles from Sep 64 issues of various Communist-Chinese newspapers.

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: [SELECTED] TRANSLATIONS NO. 120. 5 Nov 64 [104p] JPRS: 27228.
Order from OTS HC $4.00, MF $0.75 TT-64-51483

Trans. of 21 selected articles from Jul-Oct 64 issues of 3 Communist Chinese journals or newspapers.

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: TRANSLATIONS NO. 110. 28 Sep 64 [78p]
JPRS: 26583.
Order from OTS HC $3.00, MF $0.75 TT-64-41841

Consists of 6 articles from Jun-Aug 64 issues of Communist Chinese journals and newspapers.

Separate entries have been prepared for 4 articles.

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COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: TRANSLATIONS NO. 113. 6 Oct 64 [21p]
JPRS: 26744.
Order from OTS HC $1.00, MF $0.50 TT-64-51001

Consists of 4 articles from Aug-Sep 64 issues of Communist Chinese newspapers.

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: TRANSLATIONS NO. 116. 21 Oct 64 [73p]
JPRS: 27009.
Order from OTS HC $3.00, MF $0.75 TT-64-51265

Consists of 10 articles from Aug-Sep 64 issues of Communist Chinese journals and newspapers.

Separate entries have been prepared for 5 articles.

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COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: TRANSLATIONS NO. 117. 23 Oct 64 [86p] JPRS: 27049.
Order from OTS HC $3.00, MF $0.75 TT-64-51305

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COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: TRANSLATIONS NO. 119. 30 Oct 64 [18p]
JPRS: 27172.
Order from OTS HC $1.00, MF $0.50 TT-64-51428

Consists of 5 articles from Aug-Sep 64 issues of Communist Chinese journals and newspapers.

COMMUNIST CHINESE SCIENTIFIC ABSTRACTS NO. 73. 8 Oct 64 [194p] JPRS: 26807.
Order from OTS or ETC HC $5.00, MF $1.25 TT-64-51064

Contains abstracts of articles from Communist Chinese scientific journals, as well as translations of abstracts pertaining to Communist China published in the various series of Soviet Referativnyi Zhurnal.

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Order from OTS HC $6.00, MF $1.25 TT-64-51070

Contains abstracts of articles from Communist Chinese scientific journals, as well as translations of abstracts pertaining to Communist China published in the various series of the Soviet Referativnyi Zhurnal.

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COMMUNIST CHINESE SCIENTIFIC ABSTRACTS NO. 75. 20 Oct 64 [79p] JPRS: 26995.
Order from OTS HC $3.00, MF $0.75 TT-64-51251

Contains abstracts of articles from Communist Chinese scientific journals, as well as translations of abstracts pertaining to Communist China published in the various series of the Soviet Referativnyi Zhurnal.

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COMMUNIST CHINESE SCIENTIFIC ABSTRACTS NO. 76 5 Nov 64 [80p] JPRS: 27252.
Order from OTS HC $3.00, MF $0.75 TT-64-51507

Contains abstracts of articles from Communist Chinese scientific journals, as well as translations of abstracts pertaining to Communist China published in the various series of the Soviet Referativnyi Zhurnal.

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22 Sep 64 [53p] JPRS: 26506.
Order from OTS HC $3.00, MF $0.75 TT-64-41764

Contains summaries and abstracts of articles in Soviet, Eastern European, and other publications concerning current scientific and technical conferences attended by Soviet Bloc personnel.

EAST EUROPEAN HEAVY INDUSTRY: TRANSLATIONS NO. 184. 17 Aug 64, 27p JPRS: 25952.
Order from OTS HC $2.00, MF $0.50 TT-64-41223

Trans. of 4 selected articles from Apr-Jun 64 issues of Bulgarian and Polish journals.

Separate entries have been prepared for 2 articles.

EAST EUROPEAN MATERIALS INDUSTRIES: TRANSLATION NO. 195. 29 Oct 64 [41p] JPRS: 27151.
Order from OTS HC $2.00, MF $0.50 TT-64-51407

Trans. of Petrol si Gaze (Rumania) 1964 [v. 15] no. 8, p. 438-452; Gospodarka Wodna (Poland) 1964 [v. 24] no. 7, p. 225-230.

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Order from OTS or ETC HC $2.00, MF $0.50 TT-64-51086

Consists of 5 articles from Jul-Aug 64 issues of Bulgarian and Rumanian journals and newspapers.

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Order from OTS HC $2.00, MF $0.50 TT-64-51157

Consists of articles from Aug-Sep 64 issues of East German and Polish journals.

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For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

HIGH RATES OF TECHNICAL PROGRESS. Oct 64, 17p.
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Consists of 10 articles from Jun-Aug 64 issues of Russian journals and newspapers.

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Order from OTS or ETC HC $3.00, MF $0.75 TT-64-51096

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Order from OTS HC $5.00, MF $1.00 TT-64-41786

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Priborostroenie (USSR) 1964, v. 7, no. 3, p. 3-136.

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IZVESTIYA VUZOV: INSTRUMENT BUILDING, 1964, VOL. 7, NO. 4. 27 Oct 64 [228p] JPRS: 27089.
Order from OTS HC $6.00, MF $1.25 TT-64-51345

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Priborostroenie (USSR) 1964, v. 7, no. 4, p. 1-172.

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MIDDLE EAST: TRANSLATIONS NO. 107. SCIENTIFIC AND TECHNICAL DEVELOPMENT OF ISRAEL. 21 Oct 64 [57p] JPRS: 27008.
Order from OTS HC $3.00, MF $0.75 TT-64-51264

Consists of 14 articles from Sep 64 issues of newspapers from the Middle East.

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MIDDLE EAST: TRANSLATIONS NO. 109. 28 Oct 64 [56p] JPRS: 27124.
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Consists of 10 articles from Sep 64 issues of newspapers from the Middle East.

NATURE, 1964 [VOL. 53] NO. 6: [SELECTED] TRANSLATIONS. 20 Oct 64 [44p] JPRS: 26991.
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Order from OTS HC $3.00, MF $0.75 TT-64-51027

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NEWS OF THE ORGANIZATION AND ADMINISTRATION OF SOVIET SCIENCE. 28 Oct 64 [37p] JPRS: 27127.
Order from OTS or ETC HC $2.00, MF $0.50 TT-64-51383

Consists of 6 articles from Jun-Aug 64 issues of Russian journals and newspapers.

NLL TRANSLATIONS BULLETIN, 1964, VOL. 6, NO. 10, P. 869-954. Oct 64, 1v.
Order from HMSO $0.77, $9.86/year

This bulletin includes translations available for purchase or on loan from N.L.L., reports on visits, and 4 articles from Mar-Jun 64 issues of 4 Russian journals.

Separate entries have been prepared for the 4 articles.

NLL TRANSLATIONS BULLETIN, 1964, VOL. 6, NO. 11, P. 955-1060. Nov 64, 1v.
Order from HMSO $0.77, $9.86/year

This bulletin includes translations available for purchase or on loan from N.L.L., books received from the USSR, and 1 article from a Mar 64 issue of a Russian journal.

A separate entry has been prepared for the translated article.

ON THE FURTHER DEVELOPMENT OF RESEARCH AT HIGHER EDUCATIONAL ESTABLISHMENTS. 9p.
Order from ETC $1.10 TT-64-26607

Trans. from Pravda [Moscow] (USSR) n.d.

ORGANIZATION OF SCIENTIFIC RESEARCH IN THE USSR: ARTICLES FROM SOVIET JOURNALS. 8 Oct 64 [12p] JPRS: 26803.
Order from OTS HC $1.00, MF $0.50 TT-64-51060

Consists of various articles from Feb-Jun 64 issues of Russian journals.

REPORTS OF THE ACADEMY OF SCIENCES UkSSR, 1964, NO. 4: [SELECTED] TRANSLATIONS. 26 Oct 64 [62p] JPRS: 27067.
Order from OTS or ETC HC $3.00, MF $0.75 TT-64-51323

Trans. of Akademiya Nauk URSR [Kiev]. Dopovidi, 1964, no. 4, p. 427-441, 553-556.
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SCIENCE IN THE SOVIET UNION. 22 Oct 64 [37p] JPRS: 27017.
Order from OTS HC $2.00, MF $0.50 TT-64-51273

Trans. of 8 articles from May-Jul 64 issues of Russian journals and newspapers.

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TECHNOLOGY AND ARMAMENT, 1964, NO. 1: [SELECTED PARTS].
B. L. T., tr. 11 Aug 64, 104p I-4852.
Order from OTS or ETC HC $4.00, MF $0.75 TT-64-71663

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H. B. W., tr. 31 Jul 64 [140p] I-4851.
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Order from OTS HC $1.00, MF $0.50 TT-64-51329

Trans. from Munca (Rumania) 1964 [v. 20] 19 Aug, p. 1, 5 and Zycie Gospodarcze (Poland) 1964 [v. 19] no. 38, 20 Sep, p. 3.

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NEW METHOD FOR THE DETECTION OF FISSURES IN MATERIALS (Nova Metoda Zjist'ovani Trhlin v Materialech). 7p.
Order from CSIR R.O.70 CSIR-tr.289

Trans. of Stavebnicky Casopis (Czechoslovakia) 1962, v.10, no.6, p.378-382.

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Order from SLA $1.10 TT-64-30638

Trans. of German patent 1,168,237, by Attrezzature e Diapositivi per Annunci, filed 24 Mar 60, pub. 16 Apr 64.

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GRADUATION AND VERIFICATION PRESSURE DROP METERS (Graduirovka i Poverka Reometrov). Oct 64, 4p 1ref RTS-2544.
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Trans. of V[sesoyuznyi] N[auchno]-I[ssledovatel'skii] I[nstitut] M[etrologii. Trudy] (USSR) 1962, no. 66(126) p. 27-30.

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APPARATUS FOR HIGH-PRESSURE RESEARCH (Issledovatel'skie Apparaty Vysokogo Davleniya)
David Kraus, tr. Jul 64 [9p] AmMetSoc T-R1448
Contract AF19 628 3880
Order from OTS HC $1.00, MF $0.50 AD-609 172

Trans. of Akademiya Nauk SSSR. Vestnik, 1962 [v. 32] no. 7, p. 73-76.
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No. 196

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(Vestnik Svyazi)

1964, VOL. 24, NO. 7(292)

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(Zhurnal Obshchei Biologii)

1964, VOL. 25, NO. 4

Following is a translation of three articles from the Russian-language periodical Zhurnal obshchey biologii (Journal of General Biology), Vol XXV, No 4, Moscow, July-August 1964. Complete bibliographic information accompanies each article.

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JOURNAL OF MICROBIOLOGY, EPIDEMIOLOGY, AND IMMUNOBIOLOGY

(Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii)

1964, VOL. 41, NO. 8

EXPERIMENTAL STUDIES ON INFECTIOUS DISEASES

- USSR -

Following is a translation of ten articles in the Russian-language periodical Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii (Journal of Microbiology, Epidemiology, and Immunobiology), Vol. 41, No. 8, Moscow, 1964. Names of authors and original page numbers accompany each article.

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MEDICAL INDUSTRY OF THE USSR

(Meditsinskaya Promyshlennost' SSSR)

1964, VOL. 18, NO. 8

MEDICAL INDUSTRY OF THE USSR

/Following is a translation of several articles by various authors in the Russian-language periodical Meditsinskaya Promyshlennost' SSSR (English version above), No 8, Aug 1964, Moscow. Specific authors and source page numbers accompany each individual selection./

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MEDICAL RADIOLOGY

(Meditsinskaya Radiologiya)
1964, VOL. 9, NO. 8
THYROID GLAND IRRADIATION AND OTHER RADIOLOGICAL STUDIES

- USSR -

Following is a translation of six articles in the Russian-language periodical Meditsinskaya radiologiya (Medical Radiology), Vol IX, No. 8, Moscow, August 1964. Complete bibliographic information accompanies each article.

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NATURE
(Priroda)
1964, VOL. 53, NO. 6

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No 6, 1964

- USSR -

Following is a translation of seven articles in the Russian-language periodical Priroda (Nature), No 6, Moscow, 1964. Complete bibliographic information accompanies each article.

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NERVOUS SYSTEM

(Nervnaya Sistema)

1964, NO. 4

STUDIES OF THE NERVOUS SYSTEM

- USSR -

Following is a translation of seven articles in the Russian-language periodical Nervnaya sistema (The Nervous System), No 4, Leningrad, 1963. Complete bibliographic information accompanies each article.

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NEWS OF HIGHER EDUCATIONAL INSTITUTIONS: RADIO ENGINEERING

(Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika)

1964, VOL. 7, NO. 3

Following is a translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy: Radiotekhnika (News of Higher Educational Institutions: Radio Engineering), Vol VII, No 3, May-June 1964, Kiev, pp 265-401.

Note: Illustrations are given at the end of each article. Original source page numbers appear in the left-hand margin of translation.

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NEWS OF HIGHER EDUCATIONAL INSTITUTIONS. RADIOPHYSICS

(Izvestiya Vysshikh Uchebnykh Zavedenii. Radiofizika)

1964, VOL. 7, NO. 2

Following is a translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy: Radiofizika (News of Higher Educational Institutions -Radiophysics), Vol VII, No 2, March-April 1964, Gor'kiy, pages 193-388.

Note: Illustrations and tables appear at end of each article.

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NEWS OF THE SIBERIAN DEPARTMENT OF THE ACADEMY OF SCIENCES:
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(Akademiya Nauk SSSR. Sibirskoe Otdelenie. Izvestiya) 1964, NO. 4,
(Seriya Biologo-Meditsinskikh Nauk) NO. 1

EFFECTS OF SOUND AND NUCLEIC ELEMENTS ON CELLS

- USSR -

[Following are translations of three articles from the Russian-language periodical Izvestiya Sibirskogo Otdeleniya Akademii Nauk SSSR, Seriya Biologo-Meditsinskikh Nauk (News of the Siberian Department of the Academy of Sciences, USSR: Biological and Medical Sciences Series), No. 4, Section 1, Novosibirsk, 1964. Authors' names and page numbers accompany each article.]

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PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY

(Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya)

1964, VOL. 8, NO. 3

STUDIES IN PHYSIOLOGY AND THERAPY

- USSR -

Following is a translation of five articles from the Russian-language periodical Patologicheskaya fiziologiya i eksperimentalnaya terapiya (Pathological Physiology and Experimental Therapy), Vol VIII, No 3, Moscow, May/June, 1964. Individual biographical information appears with each article.

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PHYSIOLOGICAL JOURNAL

(Fiziologichnyi Zhurnal)

1964, VOL. 10, NO. 4

PROBLEMS IN HUMAN AND ANIMAL PHYSIOLOGY

- USSR -

[Following is the translation of selected portions from the Ukrainian-language publication Fiziologichnyy Zhurnal (Physiological Journal), No 4, Kiev, July-August 1964. Authors and specific page numbers accompany each article.]

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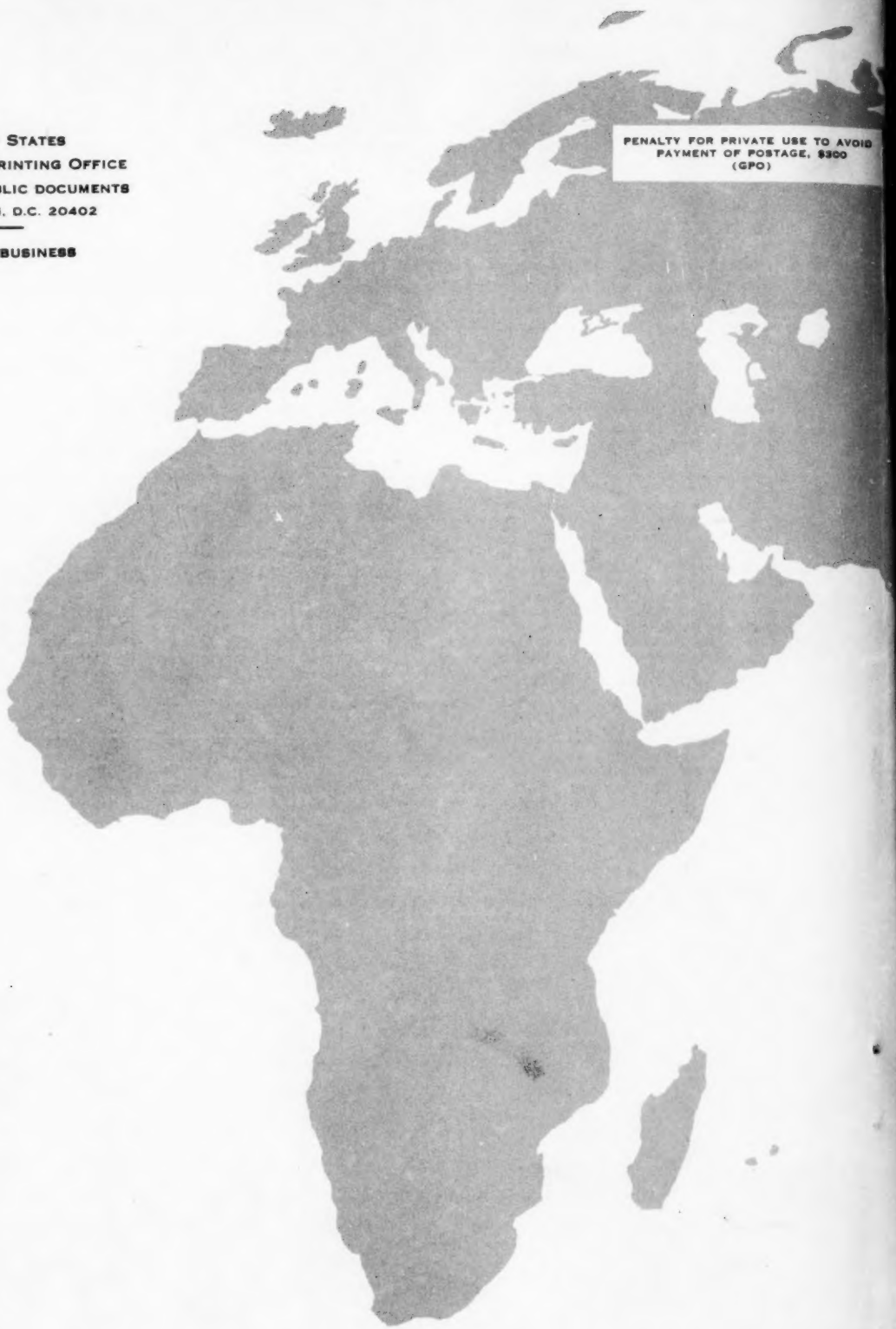

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